

**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: not yet assigned

Filing Date: not yet assigned

Applicant: Donald H. Keskula et al.

Group Art Unit: not yet assigned

Examiner: not yet assigned

Title: Fuel Cell Stack Monitoring and System Control

Attorney Docket: 8540G-000044/DVB [GM REF NO. H-204428]

---

Director of the United States Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

**INFORMATION DISCLOSURE STATEMENT**

Sir:

Pursuant to 37 C.F.R. §§ 1.56, 1.97 and 1.98, Applicant hereby submits an Information Disclosure Statement for consideration by the Examiner.

**I. LIST OF PATENTS, PUBLICATIONS, AND OTHER INFORMATION**

The patents, publications and other information requested to be considered by the Office (except unpublished U.S. patent applications) are listed on Form 1449 attached hereto.

**II. COPIES**

A. ☐ Submitted herewith is a legible copy of (i) each U.S. patent application publication and U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; (iii) for each cited pending U.S. application, the application specification including the claims, and any drawing of the application which caused it to be listed including the claims directed to that portion; and (iv) all other information or that portion which caused it to be listed.

B. ☒ Any patents, publications or other information which are listed on Form 1449 or on the copies of PTO-892, but which are not enclosed herewith, were

previously cited by or submitted to the PTO in one of the following applications which has been relied upon for an earlier filing date under 35 U.S.C. § 120:

U.S. Serial Number

10/011,097

09/345,125

U.S. Filing Date

12/06/2001

07/06/1999

C. ☐ Because the present application was/is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

D. ☐ This is a PCT application in the entry of the National Phase in the United States. A copy of the International Search Report is attached for the Examiner's information. The documents listed on the International Search Report are listed on the attached Form 1449 for consideration by the Examiner and for listing on any patent resulting from this application. Since the International Search report was from the US, EPO, or JPO search authorities, copies of these references should have been supplied to the USPTO under the trilateral agreement and are believed to be in the file of the above-identified application. (MPEP 1893.03(g).)

III. CONCISE EXPLANATION OF THE RELEVANCE (check at least one box)

A. ☒ Except as may be indicated below in (B), all of the patents, publications or other information are in the English language (concise explanation not required).

B. ☒ A concise explanation of the relevance of each patent, publication or other information listed that is not in the English language is as follows (see 37 C.F.R. § 1.98(a)(3)):

1. ☒ See the attached foreign patent office communication from a counterpart foreign application: European Search Report, App. No. EP 00111123.6

2. ☐ English translations are provided:

3. ☒ Other: Derwent Abstract provided for German Appl. No. DE 19924938 A1

C. ☐ The following additional information is provided for the Examiner's consideration.

IV. CROSS REFERENCE TO RELATED APPLICATION(S)

A. ☒ The Examiner is advised that the following co-pending application(s) contain(s) subject matter that may be related to the present application. By bringing this(these) application(s) to the Examiner's attention, Applicant(s) does (do) not waive the confidentiality provisions of 35 U.S.C. § 122.

<u>Serial No.</u>	<u>Filing Date</u>	<u>Art Unit</u>
US App 09/345,125	07/06/1999	1745
US App 10/011,097	12/06/2001	1745

V. THIS IDS IS BEING FILED UNDER

A. ☒ **37 C.F.R. § 1.97(b):** (check only one box)

1. ☒ within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) (37 C.F.R. § 1.97(b)(1)). No fee or certification is required.

2. ☐ within three months of the date of entry of the national stage as set forth in § 1.491 in an international application (37 C.F.R. § 1.97(b)(2)). No fee or certification is required.

3. ☐ before the mailing of a first Office Action on the merits (37 C.F.R. § 1.97(b)(3)). No fee or certification is required.

4. ☐ before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No fee or certification is required.

B. ☐ **37 C.F.R. § 1.97(c):** (check only one box)

before the mailing date of either any Final Office Action under 37 C.F.R. § 1.113, a Notice of Allowance under 37 C.F.R. § 1.311, or an action that otherwise closes prosecution.

1. ☐ No certification; therefore, a fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

2. ☐ See the certification below. No fee is required.

C. ☐ **37 C.F.R. § 1.97(d):**

after the mailing date of either a Final Office Action under 37 C.F.R. § 1.113 or a Notice of Allowance under 37 C.F.R. § 1.311, yet on or before payment of the issue fee.

1. ☐ See the certification below. A fee in the amount of \$180.00 is required by 37 C.F.R. § 1.17(p).

VI. CERTIFICATION UNDER 37 C.F.R. § 1.97(e): (check only one box)

The undersigned hereby certifies that:

A. ☐ each item of information contained in this IDS was first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(1)). See further statement under 37 C.F.R. 1.704(d) below in section VII, if applicable; or

B. ☐ no item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS (See 37 C.F.R. § 1.97(e)(2)).

C. ☐ some of the items of information were first cited in a communication from a foreign patent office. As to this information, the undersigned hereby certifies that each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS. As to the remaining information, the undersigned hereby certifies that no item of this remaining information contained in this IDS was cited in a communication from a foreign patent office in a counterpart foreign application, and, to the knowledge of the undersigned after making reasonable inquiry, no item of information contained in this IDS was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this IDS.

VII. STATEMENT UNDER 37 C.F.R. 1.704(d)

The undersigned hereby states that:

☐ each item of information contained in this IDS was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this IDS.

VI. PAYMENT OF FEES (check only one box)

A. ☐ A check in the amount of \$180.00 is enclosed for the above identified fee.

B. ☐ Please charge Deposit Account No. 07-0960 in the amount of \$180.00 for the above-indicated fee. A duplicate copy of this paper is attached.


The above references are being cited only in the interest of candor and without any admission that they constitute statutory prior art, contain matter which anticipates the invention, or which would render the same obvious, either singly or in combination, to a person of ordinary skill in the art. Furthermore, this Information Disclosure Statement shall not be construed as a representation that a search has been made.

If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule (with a petition if necessary) and charge the appropriate fee to Deposit Account No. 07-0960.

Please charge any additional fees or credit any overpayment pursuant to 37 C.F.R. § 1.16 or § 1.17 to Deposit Account No. 07-0960.

Respectfully submitted,

Dated: January 7 2004

By:   
Linda M. Deschere  
Reg. No. 34,811

Harness, Dickey & Pierce, P.L.C.  
P.O. Box 828  
Bloomfield Hills, Michigan 48303  
(248) 641-1600

LDES/lf-s

<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 1 of 3	ATTORNEY DOCKET No.	SERIAL No.
	8540G-000044/DVB	not yet assigned
	APPLICANT	
	Keskula et al.	
	FILING DATE	GROUP
	not yet assigned	not yet assigned

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
1.		4,128,700	12/78	Sederquist		
2.		4,293,315	10/81	Sederquist		
3.		4,555,454	12/85	Shuster		
4.		4,642,272	2/87	Sederquist		
5.		4,650,727	3/87	Vanderborgh et al.		
6.		4,659,634	4/87	Struthers		
7.		4,670,359	6/87	Beshty et al.		
8.		4,678,723	7/87	Wertheim		
9.		4,816,353	3/89	Wertheim et al.		
10.		4,904,548	2/90	Tajima		
11.		4,923,768	5/90	Kaneko et al.		
12.		4,988,283	1/91	Nagasawa et al.		
13.		4,994,331	2/91	Cohen		
14.		5,248,567	9/93	Amemiya et al.		
15.		5,271,916	12/93	Vanderborgh et al.		
16.		5,272,017	12/93	Swathirajan et al.		
17.		5,316,871	5/94	Swathirajan et al.		
18.		5,334,463	8/94	Tajima et al.		
19.		5,372,617	12/94	Kerrebrock et al.		
20.		5,429,886	7/95	Struthers		
21.		5,484,577	1/96	Buswell et al.		

Examiner:	Date Considered:
-----------	------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<b>FORM HDP-1449 (Based on Form PTO-1449)</b>  <b>PATENT AND TRADEMARK OFFICE</b> <b>INFORMATION DISCLOSURE CITATION</b> (Use several sheets if necessary)  Sheet 2 of 3	ATTORNEY DOCKET No.	SERIAL No.
	8540G-000044/DVB	not yet assigned
	APPLICANT	
	Keskula et al.	
	FILING DATE	GROUP
	not yet assigned	not yet assigned

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
22.		5,484,666	1/96	Gibb et al.		
23.		5,518,705	5/96	Buswell et al.		
24.		5,518,828	5/96	Senetar		
25.		5,554,453	9/96	Steinfeld et al.		
26.		5,605,770	2/97	Andreoli et al.		
27.		5,631,532	5/97	Azuma et al.		
28.		5,637,415	6/97	Meltser		
29.		5,702,838	12/97	Yasumoto et al.		
30.		5,760,488	6/98	Sonntag		
31.		5,763,113	6/98	Meltser et al.		
32.		5,789,091	8/98	Wozniczka et al.		
33.		5,945,229	8/99	Meltser		
34.		6,007,930	12/99	Adams et al.		

FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No
1.		JP 2000357526 A	12/00	Japan		Abstract
2.		EP 0862233 A	9/98	Europe		
3.		EP 0982788 A	3/00	Europe		
4.		DE 19924938 A	12/99	Germany		Abstract

Examiner:	Date Considered:
-----------	------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<p>FORM HDP-1449 (Based on Form PTO-1449)</p> <p><b>PATENT AND TRADEMARK OFFICE</b></p> <p><b>INFORMATION DISCLOSURE CITATION</b></p> <p>(Use several sheets if necessary)</p> <p>Sheet 3 of 3</p>	ATTORNEY DOCKET No.	SERIAL No.
	8540G-000044/DVB	not yet assigned
	APPLICANT	
	Keskula et al.	
	FILING DATE	GROUP
	not yet assigned	not yet assigned

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
1.		M.T. Le et al., "Effects of Operating Parameters on PAFC Stack Performance", Proceedings of the 23 <sup>rd</sup> Intersociety Energy Conversion Engineering Conference, Vol. 2, 1988, pages 251-255.
2.		Szaniszlo, "The Advanced Low-Emissions Catalytic-Combustor Program: Phase 1-Description and Status", ASME #79-GT-192
3.		Krill et al., "Catalytic Combustion for System Applications", ASME #79-HT-54
4.		Hall et al., "A Porous Media Burner for Reforming Methanol for Fuel Cell Powered Electric Vehicles", SAE Paper #950095
5.		Natural Gas Power Plant System (a descriptive drawing)
6.		European Search Report mailed June 17, 2002

Examiner:	Date Considered:
-----------	------------------

EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.